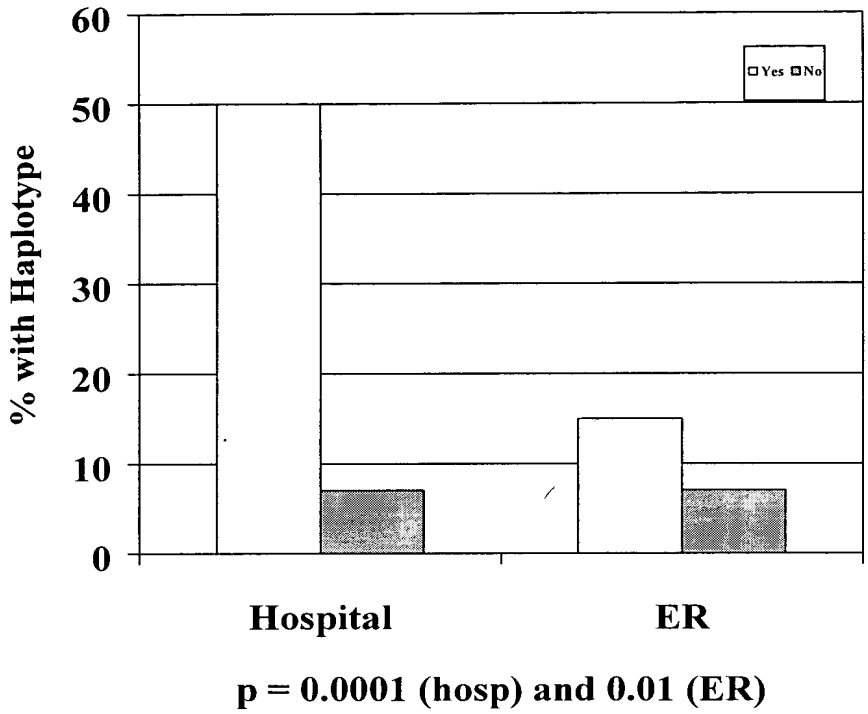
Express Mail Label No. EV 292561217US
Date of Deposit: October 8, 2003
Docket No. B0801.70290US00

FIG. 1



p = 0.0001 (hosp) and 0.01 (ER)

FIG. 2

Genotyping Strategy

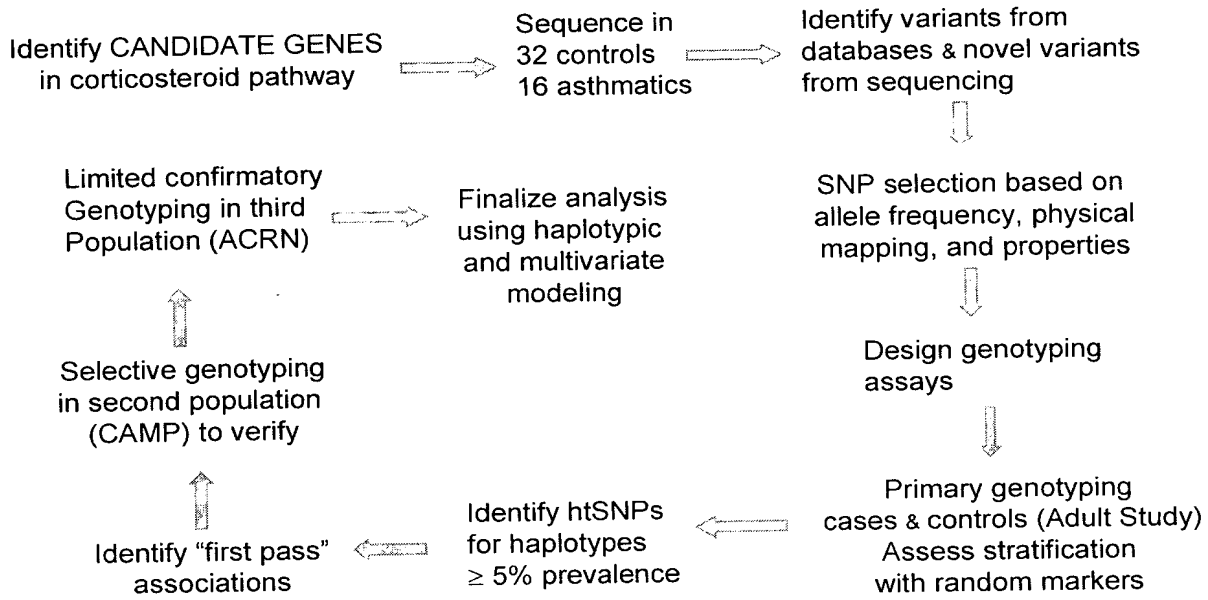

Identify CANDIDATE GENES in corticosteroid pathway
Sequence in 32 controls 16 asthmatics
Identify variants from databases & novel variants from sequencing
SNP selection based on allele frequency, physical mapping, and properties
Design genotyping assays
Primary genotyping cases & controls (Adult Study) Assess stratification with random markers
Identify htSNPs for haplotypes ≥ 5% prevalence
Finalize analysis using haplotypic and multivariate modeling
Limited confirmatory Genotyping in third Population (ACRN)
Selective genotyping in second population (CAMP) to verify
Identify "first pass" associations

FIG. 3

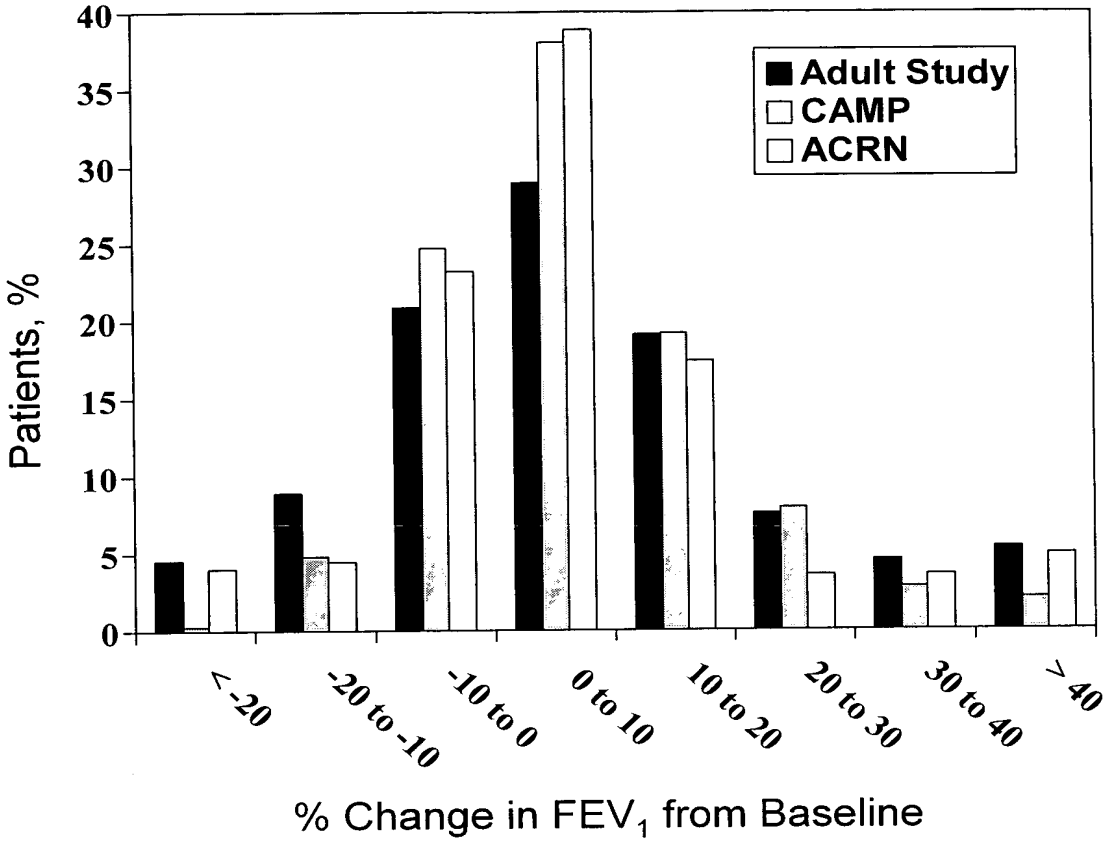
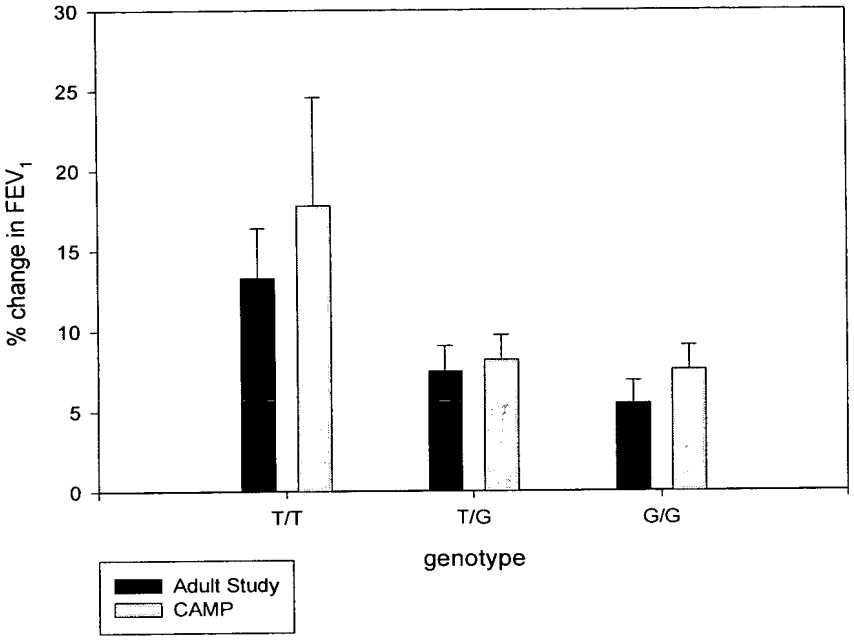

Adult Study
CAMP
ACRN
Patients, %
40
35
30
25
20
15
10
5
0
< -20
-20 to -10
-10 to 0
0 to 10
10 to 20
20 to 30
30 to 40
> 40
% Change in FEV1 from Baseline

FIG. 4

a).


30
25
20
15
10
5
0
% change in FEV1
T/T
T/G
G/G
genotype
Adult Study
CAMP

b).

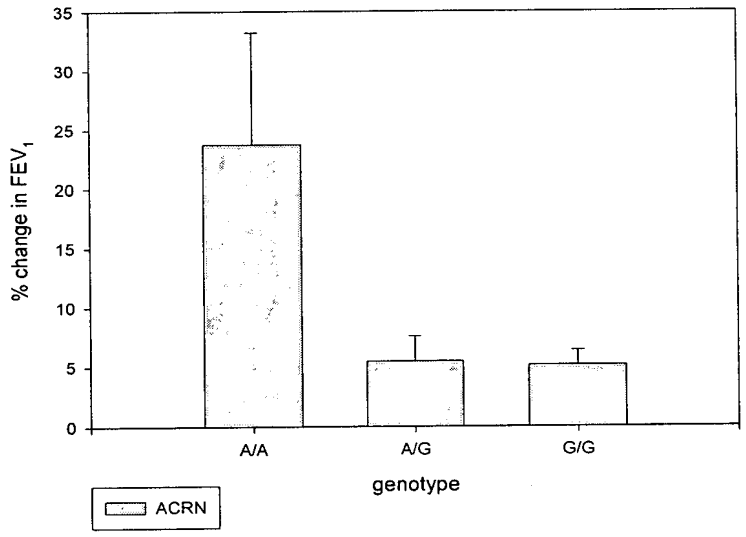
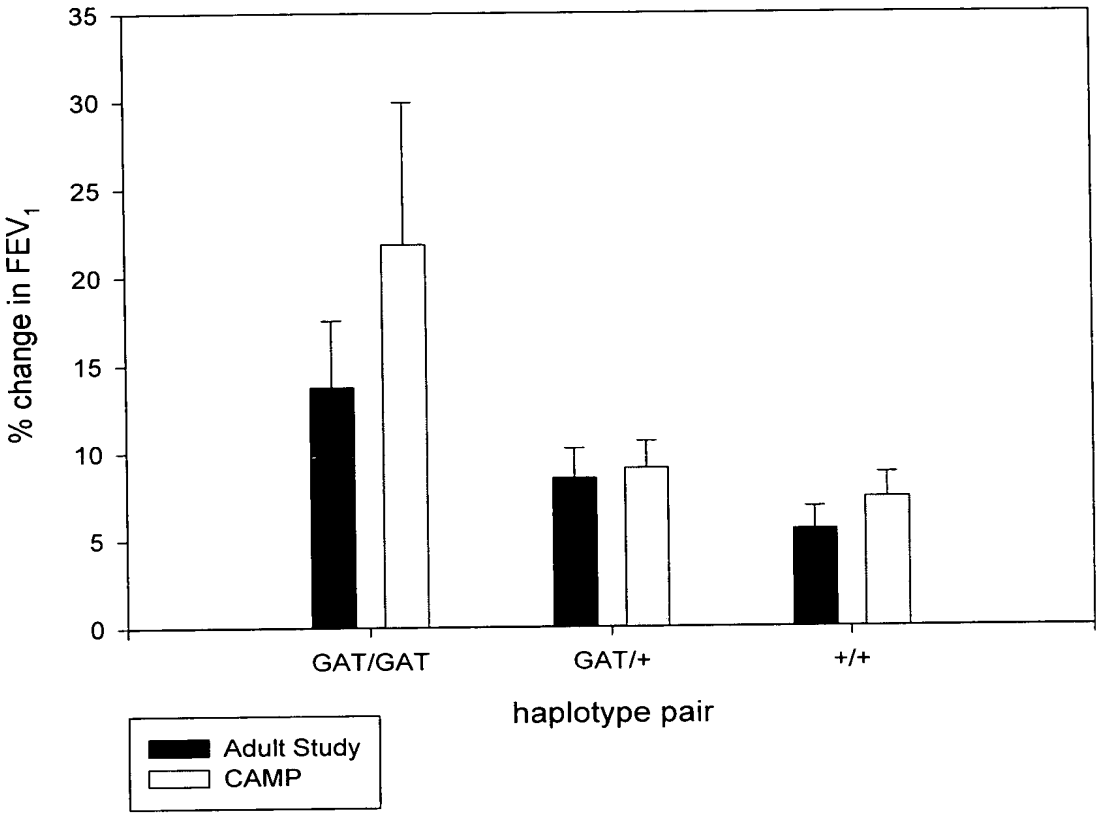

35
30
25
20
15
10
5
0
% change in FEV1
A/A
A/G
G/G
genotype
ACRN

FIG. 5


35
30
25
20
15
10
5
0
% change in FEV1
GAT/GAT
GAT/+
+/+
haplotype pair
Adult Study
CAMP